

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Original): A process ~~Process~~ for the purification of aqueous peroxygen solutions comprising the treatment of an aqueous peroxygen solution with (a) at least one membrane purification step, (b) optionally at least one ion exchange purification step, (c) optionally at least one dilution step, and (d) at least one other purification step, all of which can be conducted in any sequence.

Claim 2 (Currently Amended): The process ~~Process~~ according to claim 1, ~~in which~~ wherein the aqueous peroxygen solution is a hydrogen peroxide solution.

Claim 3 (Currently Amended): The process ~~Process~~ according to claim 2, ~~in which~~ wherein the hydrogen peroxide solution has a concentration before treatment of 5 to 70 % by weight of hydrogen peroxide.

Claim 4 (Currently Amended): The process ~~Process~~ according to ~~any one of the claims 1 to 3~~ claim 1, ~~in which~~ wherein the membrane is a reverse osmosis type membrane.

Claim 5 (Currently Amended): The process ~~Process~~ according to ~~any one of the claims 1 to 4~~ claim 1, ~~in which~~ wherein the other purification step is chosen from exposure to ultraviolet light, exposure to ozone, contact with at least one adsorption resin, or any combination thereof.

Claim 6 (Currently Amended): The process ~~Process~~ according to ~~any one of the claims 1 to 5~~ claim 1, ~~in which~~ wherein the treatment comprises, in the following sequence, (1) a membrane purification step, (2) a purification step chosen from exposure to ultraviolet light and/or exposure to ozone, (3) a dilution step, (4) an optional contact with an adsorption resin, (5) an optional ion exchange purification step.

Claim 7 (Currently Amended): The process ~~Process~~ according to claim 6, ~~in which~~ wherein the treatment additionally contains (6) a second optional ion exchange purification step, and (7) a purification step chosen from exposure to ultraviolet light and/or exposure to ozone.

Claim 8 (Currently Amended): The process ~~Process~~ according to ~~any one of the claims 1 to 5~~ claim 1, ~~in which~~ wherein the treatment comprises, in the following sequence, (1) a membrane purification step, (2) a treatment chosen from exposure to ultraviolet light, exposure to ozone, and/or contact with at least one adsorption resin, (3) optionally one or more other treatments.

Claim 9 (Currently Amended): The process ~~Process~~ according to claim 8, ~~in which~~ wherein the treatment comprises, in the following sequence, (1) a membrane purification step, (2) exposure to ultraviolet light, and (3) contact with at least one adsorption resin.

Claim 10 (Currently Amended): An aqueous ~~Aqueous~~ peroxygen solutions obtainable by the process of ~~any one of the claims 1 to 9~~ claim 1 and containing less than 1 mg of Total Organic Carbon (TOC) per kg peroxygen solution.

Claim 11 (Currently Amended): ~~The aqueous~~ Aqueous peroxygen solutions according to claim 10 containing less than ~~0,1~~ 0.1 mg TOC per kg peroxygen solution.

Claim 12 (Currently Amended): ~~Use of the aqueous solutions according to claim 10 or 11 in the manufacture of microelectronic~~ Microelectronic components and semiconductors comprising the aqueous peroxygen solutions according to claim 10.